

FAA National Software Conference, June 2001

Level of FAA Involvement

**Level of FAA
Involvement**

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LEVEL OF FAA INVOLVEMENT

**FAA SOFTWARE STANDARDIZATION
CONFERENCE**

Boston, Massachusetts.

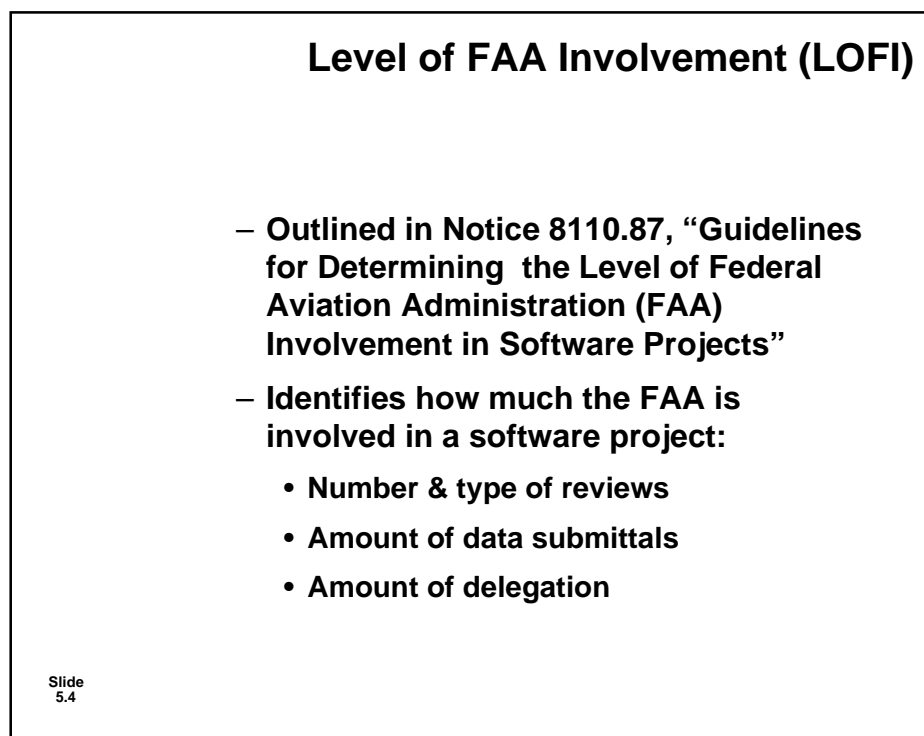
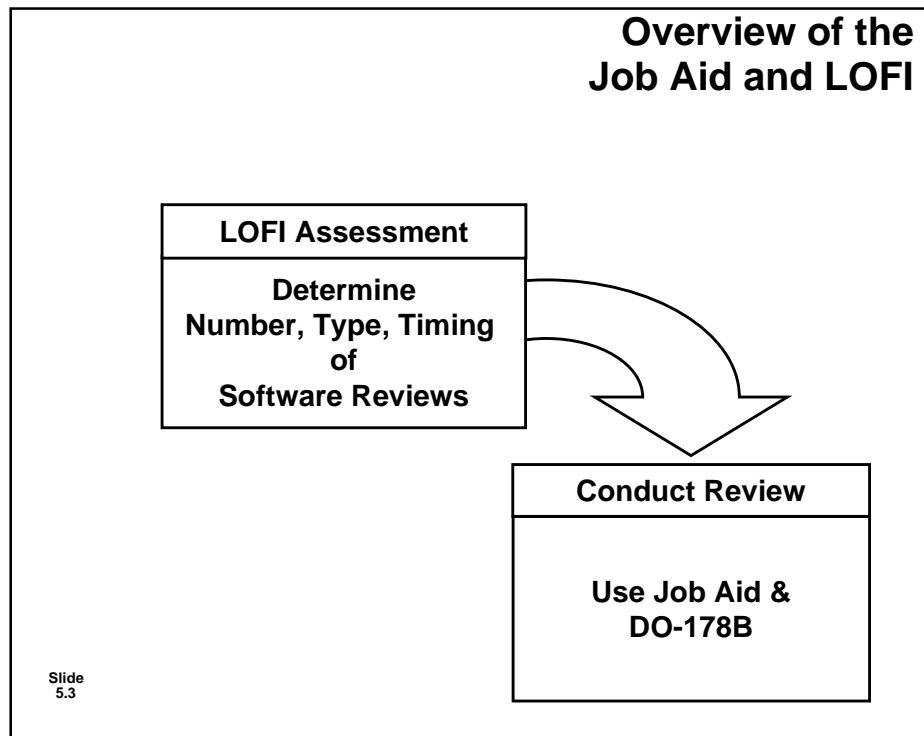
June 5-7, 2001

Jorge Castillo - FAA/ASW-110

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Notice 8110.87 Outline

- Section 1—Purpose
- Section 2—Distribution
- Section 3—Related Publications
- Section 4—Background
- Section 5—Discussion
- Section 6—Procedures
- Section 7—Special Considerations
- Section 8—Conclusion

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Section 1—Purpose

- Provides guidelines for determining level of FAA involvement in software projects.
- Applies to TC, STC, ASTC, ATC, and TSO projects that contain airborne software.

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Section 4—Background

- DO-178B Sections 9.2 and 10.3 address certification liaison process
- Notice 8110.81/90 addresses software review process
- Notice 8110.87 released Aug. 2000
- Notice 8110.87 address the following aspects of FAA's involvement:
 - When to be involved
 - Extent of involvement
 - Areas of involvement

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Section 5—Discussion

- Three levels of involvement: High, Medium, and Low
- Use software level as a starting point (Table 1):

<u>Level</u>	<u>LOFI</u>
D	LOW
C	LOW or MEDIUM
B	MEDIUM or HIGH
A	MEDIUM or HIGH

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Section 5—Discussion (Cont'd)

- For ambiguities, use Table 2 of N8110.87
- Exception to Table 2 is projects with policy issues

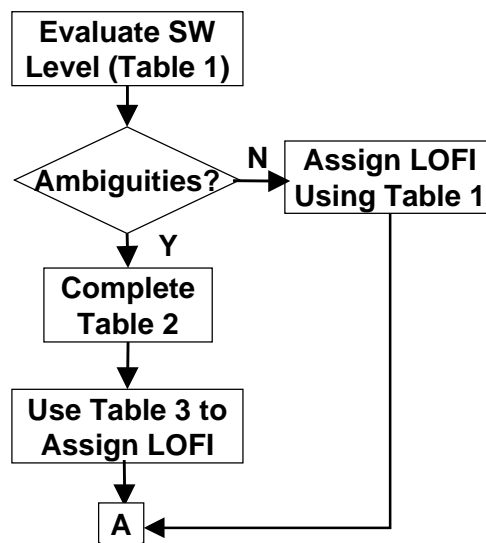
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Section 6—Procedures

DO-178B Software Level	Level of FAA Involvement
D	LOW
C	LOW or MEDIUM
B	MEDIUM or HIGH
A	MEDIUM or HIGH

[illegible]

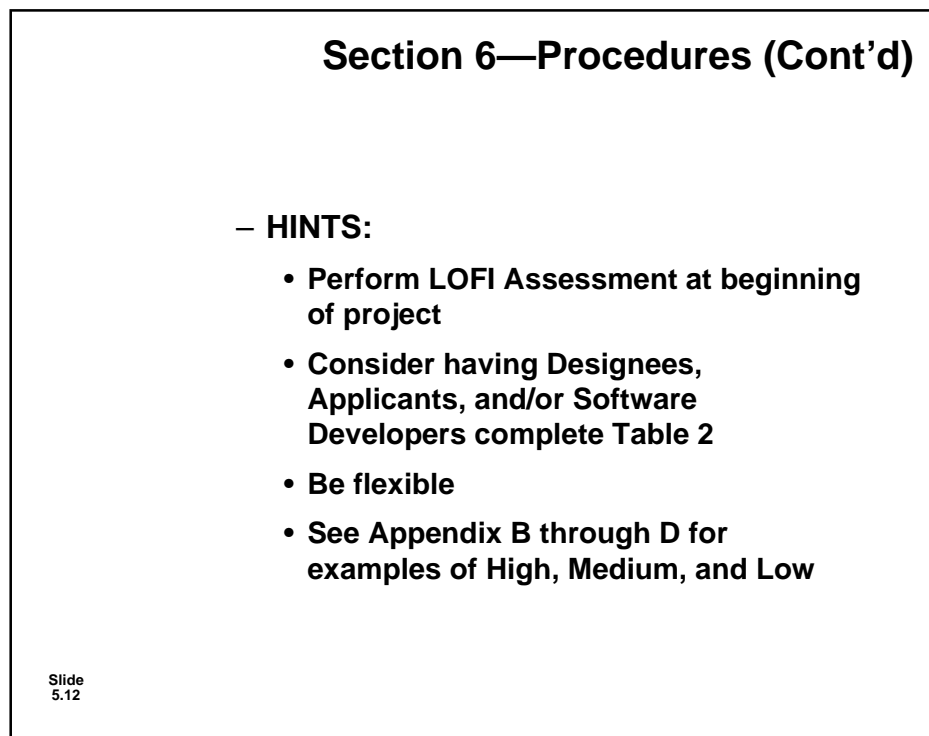
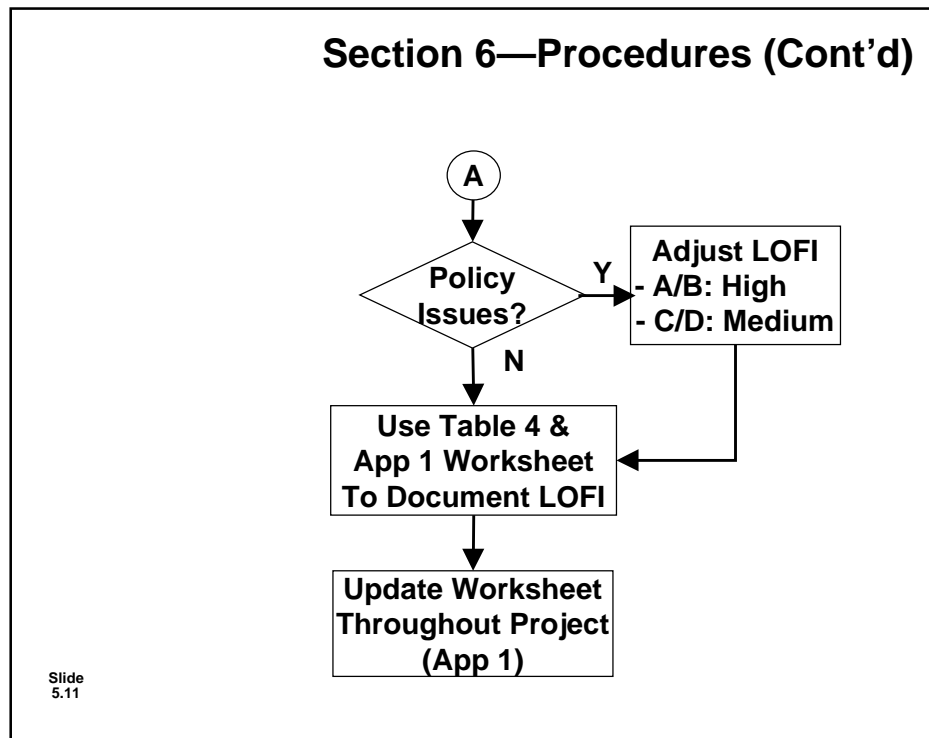
Total Score Result (TSR) (from Table 1)	Software Level A	Software Level B	Software Level C	Software Level D
TSR < 80	HIGH	HIGH	MEDIUM	LOW
80 < TSR < 130	HIGH	MEDIUM	MEDIUM	LOW
130 < TSR < 160	MEDIUM	MEDIUM	LOW	LOW



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Section 7—Special Considerations

- **Consider overall system criticality.**
- **For TSO projects instead of DERs, evaluate their personnel responsible for software oversight.**
- **Late submittals could result in intense involvement late in the program.**
- **Mid-course corrections are encouraged.**
- **LOFI reports may be used to assess FAA staffing needs.**

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Summary of Notice 8110.87

- **Criteria and guidance are useful for prioritizing efforts given limited resources.**
- **Be flexible when applying guidance.**
- **There are no solid boundaries between levels of involvement.**
- **Poor planning on the part of the applicant does not warrant panic on our part.**

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